CIVIL QUALITY CONSULTANTS & ENGINEERS
ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AA/17/2021-2022

Date:16.09.2021

TEST REPORT ON CEMENT

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.

Agency : **Sri. Ajaykumar A,** Contractor, Bangalore.

Name of Work : Comprehensive Developement of drains Left side of Muthyalamma Temple in Ward No.17, J P Park, BBMP, Bangalore

Sample : :Cement (ACC 53 grade OPC)

Sample Supplied by: :AGENCY

Date of Manufacture: : August-2021

Date of Testing 14.09.2021 to 16.09.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	355 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00%	-

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Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AA/17/2021-2022 Date 16.09.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.
Agency : **Sri. Ajaykumar A,** Contractor, Bangalore.
Name of Work : Comprehensive Developement of drains Left side of Muthyalamma Temple in Ward No.17, J P Park, BBMP, Bangalore

Date of Testing 16.09.2021
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	82	8.20	8.20	91.8	90-100
2.36	150	15.00	23.20	76.8	75-100
1.18	163	16.30	39.50	60.5	55-90
600 Micron	221	22.10	61.60	38.4	35-59
300 Micron	168	16.80	78.40	21.6	8-30
150 Micron	124	12.40	90.80	9.2	0-10

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AA/17/2021-2022 Date 16.09.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.

Agency : **Sri. Ajaykumar A,** Contractor, Bangalore.

Name of Work : Comprehensive Developement of drains Left side of Muthyalamma Temple in Ward No.17, J P Park, BBMP, Bangalore

Date of Testing 16.09.2021

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	239	1.59	1.59	98.41	95-100
20	8521	56.81	58.40	41.60	30-70
10	3321	22.14	80.54	19.46	10-35
4.75	2418	16.12	96.66	3.34	0-5

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AA/17/2021-2022 Date 16.09.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.

Agency : **Sri. Ajaykumar A,** Contractor, Bangalore.

Name of Work : Comprehensive Developement of drains Left side of Muthyalamma Temple in Ward No.17, J P Park, BBMP, Bangalore

Date of Testing 16.09.2021

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	220	4.4	4.4	95.6	95-100
10	2682	53.6	58.0	42.0	25-55
4.75	1682	33.6	91.7	8.3	0-10

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AA/17/2021-2022

Date 16.09.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.
Agency : **Sri. Ajaykumar A,** Contractor, Bangalore.
Name of Work : Comprehensive Developement of drains Left side of Muthyalamma Temple in Ward No.17, J P Park, BBMP, Bangalore
Date of Testing 16.09.2021
Material : Plastering Sand

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	29	2.90	2.90	97.1	95-100
2.36	15	1.50	4.40	95.6	95-100
1.18	32	3.20	7.60	92.4	90-100
600 Micron	71	7.10	14.70	85.3	80-100
300 Micron	250	25.00	39.70	60.3	20-65
150 Micron	532	53.20	92.90	7.1	0-15

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AA/17/2021-2022 Date 16.09.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.
Agency : **Sri. Ajaykumar A,** Contractor, Bangalore.
Name of Work : Comprehensive Developement of drains Left side of Muthyalamma Temple in Ward No.17, J P Park, BBMP, Bangalore
Date of Testing 16.09.2021
Material : Masonry Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	20	2.00	2.00	98.0	90-100
1.18	32	3.20	5.20	94.8	70-100
600 Micron	80	8.00	13.20	86.8	40-100
300 Micron	250	25.00	38.20	61.8	5-70
150 Micron	513	51.30	89.50	10.5	0-15

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AA/17/2021-2022

Date: 07.10.2021

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client	:	**: Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.
Contractor	:	**: Sri. Ajaykumar A,** Contractor, Bangalore.
Name of Work	:	: Comprehensive Developement of drains Left side of Muthyalamma Temple in Ward No.17, J P Park, BBMP, Bangalore
No.of Sample Tested	:	03
Date of Testing	:	07.10.2021
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	110.00	1.636	2337.85	1.22	0.960	109.50	17.21	18.59	17.85	22.31
2	90.00	114.00	1.712	2360.61	1.27	0.960	110.20	17.32	18.71	17.96	22.45
3	90.00	118.00	1.790	2384.76	1.31	0.965	111.80	17.57	18.98	18.32	22.89

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Job No.: CQCE/BBMP/AA/17/2021-2022

Date 16.09.2021

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.

Agency : **Sri. Ajaykumar A,** Contractor, Bangalore.

Name of the Work : Comprehensive Developement of drains Left side of Muthyalamma Temple in Ward No.17, J P Park, BBMP, Bangalore

Date of Testing 16.09.2021

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	33.1	354.9	4.44	2068.75	Minimum required Compressive Strength of Individual Units 4.00N/mm^2
2	Block 2	34.3	362.3	4.53	2143.75	
3	Block 3	35.5	378.2	4.73	2218.75	
4	Block 4	36.7	384.3	4.80	2293.75	

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